

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Atty. Docket: TAKAKURA=1B

In re Application of:)	Confirmation No.:
)	
TAKAKURA et al.)	Art Unit:
)	
Appln. No.: NOT YET ASSIGNED)	Examiner:
)	
Filed: ON EVEN DATE HEREWITH)	Washington, D.C.
)	
For: HYPERTHERMOSTABLE PROTEASE))	March 16, 2004
GENE)	
)	

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner for Patents
U.S. Patent and Trademark Office
2011 South Clark Place
Customer Window, Mail Stop
Crystal Plaza Two, Lobby, Room 1B03
Arlington, Virginia 22202

Sir :

This Information Disclosure Statement is submitted in accordance with 37 CFR §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 CFR §1.97, as it is filed:

[X] A. within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application.

[X] B. before the mailing date of a first Office action on the merits or before the mailing of a first Office action after the filing of a Request for Continued Examination under 37 C.F.R. §1.114.

2. In accordance with 37 CFR §1.98, this IDS includes a list (e.g., Form PTO/SB/08A) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

[X] A. Certain documents AA-AO were previously cited by or submitted to the Office in the following prior application(s), which are relied upon under 35 U.S.C. 120:

09/841,553 and 08/894,818

Applicant(s) identifies these documents by attaching hereto copies of the forms PTO-892 and PTO-1449 (or PTO/SB/08A) from the files of the prior application(s) or a fresh PTO-1449 (or PTO/SB/08A) listing these documents, and request that they be considered and made of record in accordance with §1.98(d). Per 37 CFR §1.98(d), copies of these documents need not be filed in this application.

3. Documents AP and AQ are not in the English language. In accordance with §1.98(c), Applicant(s) states:

[X] An English translation of each documents AP and AQ (or of the pertinent portions thereof), or a copy of each corresponding English-language patent or application, or English-language abstract (or claim) is enclosed.

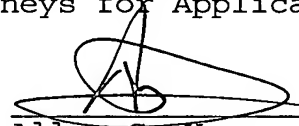
4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

5. In accordance with 37 CFR §§1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant(s) reserves the right to prove that the date of publication is in fact different.

Respectfully submitted,

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Application Number

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Filing Date

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First Named Inventor

TAKAKURA et al.

Group Art Unit

Examiner Name

Attorney Docket Number

TAKAKURA=1B

[illegible][illegible]

Examiner
Signature

Date
Considered

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Examiner Name	
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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 2

of 3

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Examiner Name	
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	AG	KLINGEBERG et al., "Properties of extremely thermostable proteases from anaerobic hyperthermostable bacteria" <u>Appl. Microbiol. Biotechnol.</u> , 34(6)715-719 (1991)	
	AH	ROBINSON et al., "A gene from the hyperthermophile <i>Pyrococcus furiosus</i> whose deduced product is homologous to member of the prolyl oligopeptidase family of proteases", <u>Elsevier Science B. V.</u> , 152:103-106 (1995)	
	AI	NGO et al., "Computational complexity, protein structure prediction, and the levinthal paradox", in The protein folding problem and tertiary structure prediction, <u>Merz, Jr., Ed., Birkhauser Boston</u> , 492-494 (1994)	
	AJ	THORNTON et al., "Protein engineering", <u>Cur. Opinion Biotech.</u> , 6(4)367-369 (1995)	
	AK	RUDINGER page 6 of Peptide Hormones, Parsons, Ed., University Park Press (1976)	
	AL	HALIO et al., "Sequence, Expression in <i>Escherichia coli</i> , and Analysis of the Gene Encoding a Novel Intracellular Protease (Pfpl) from the Hyperthermophilic Archaeon <i>pyrococcus furiosus</i> ," <u>Journal of Bacteriology</u> , May 1996, p. 2605-2612, vol. 178, United States	
	AM	VOORHORST et al., "Isolation and Characterization of the Hyperthermostable Serine Protease, Pyrolysin, and Its Gene from the Hyperthermophilic Archaeon <i>Pyrococcus furiosus</i> ," <u>The Journal of Biological Chemistry</u> , August 1996, p. 20426-20431, vol. 271, United States	
	AN	VOORHORST et al., "Homology modeling of two subtilisin-like serine proteases from the hyperthermophilic archaea <i>Pyrococcus furiosus</i> and <i>Thermococcus stetteri</i> ," <u>Protein Engineering</u> , 1997, p. 905-914, vol. 10	
	AO	KLINGEBERG et al., <u>Microbiol. Biotechnol.</u> , 34:715-719 (1991)	

Examiner Signature		Date Considered	
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.